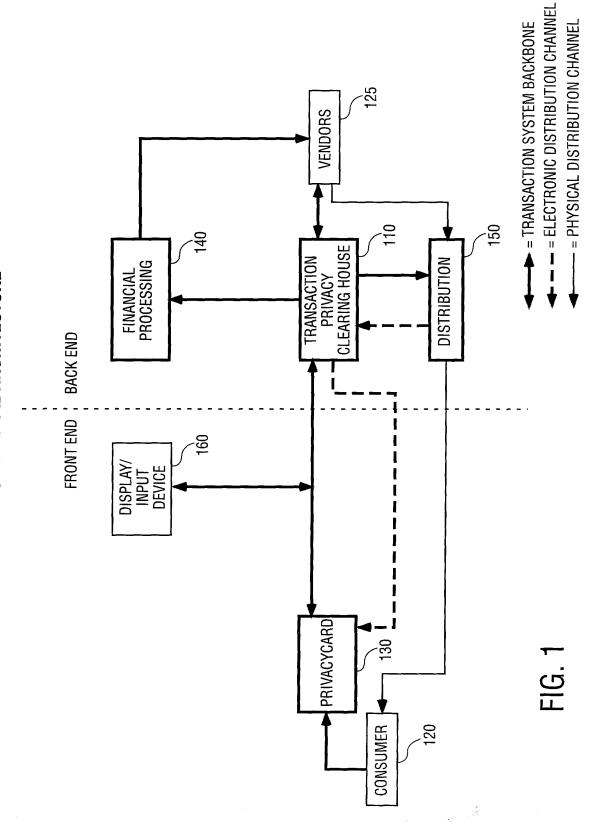
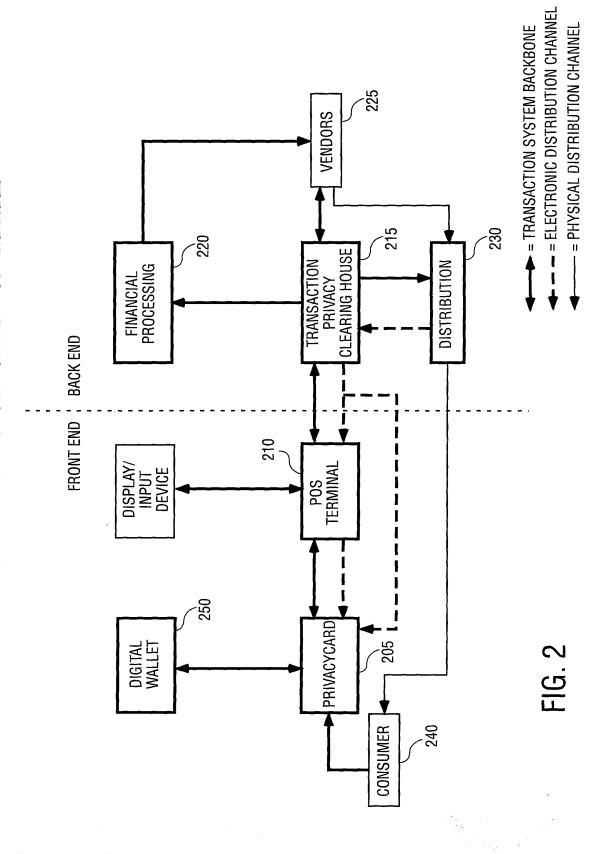
COMMERCE GENERAL ARCHITECTURE



COMMERCE GENERAL ARCHITECTURE - POS TERMINAL:



COMMERCE IN-HOME ENVIRONMENT

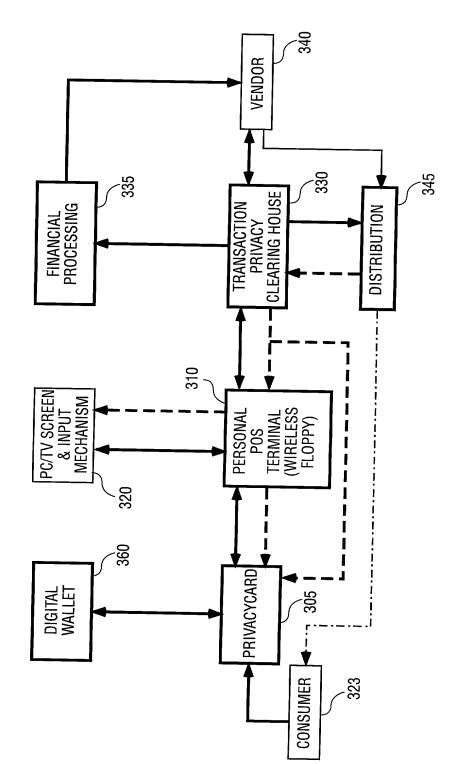
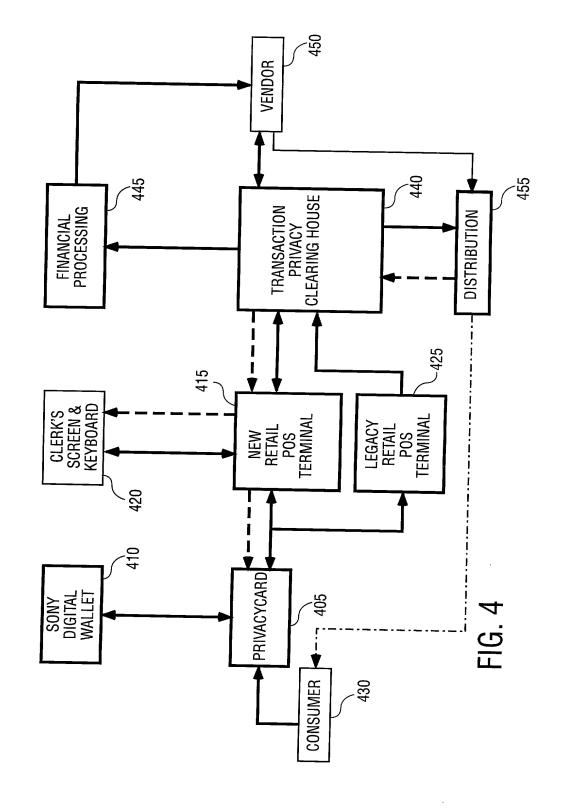
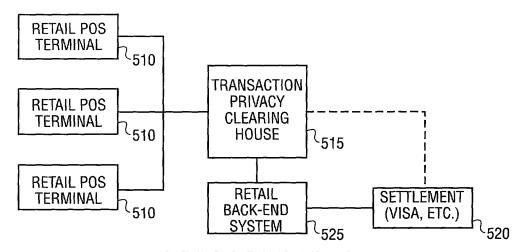


FIG. 3

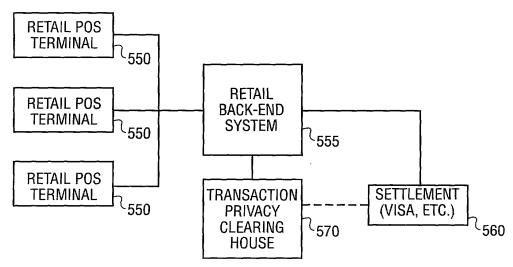
IN-STORE RETAIL ENVIRONMENT





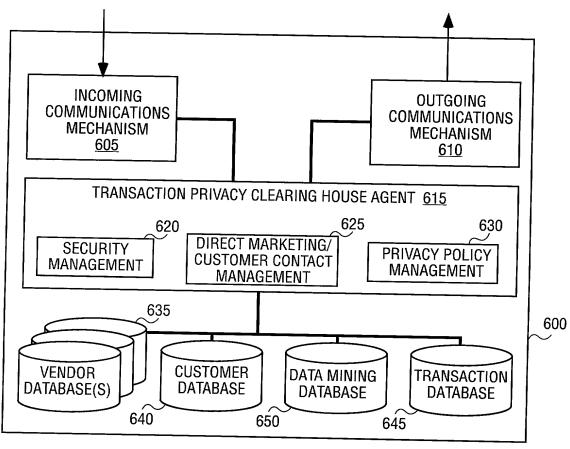
A RETAIL SYSTEM MODIFIED TO SUPPORT THE INTERACTION OF LEGACY POS TERMINAL WITH THE DIGITAL WALLET SYSTEM

FIG. 5A



AN ALTERNATIVE EMBODIMENT OF THE RETAIL SYSTEM MODIFIED TO SUPPORT THE INTERACTION OF LEGACY POS TERMINALS WITH THE DIGITAL WALLET SYSTEM

FIG. 5B



TRANSACTION PRIVACY CLEARING HOUSE: MAJOR COMPONENTS

FIG. 6

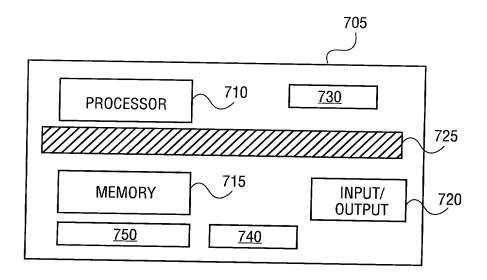


FIG. 7A

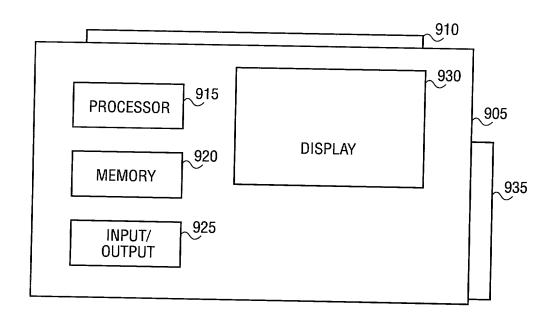


FIG. 9A

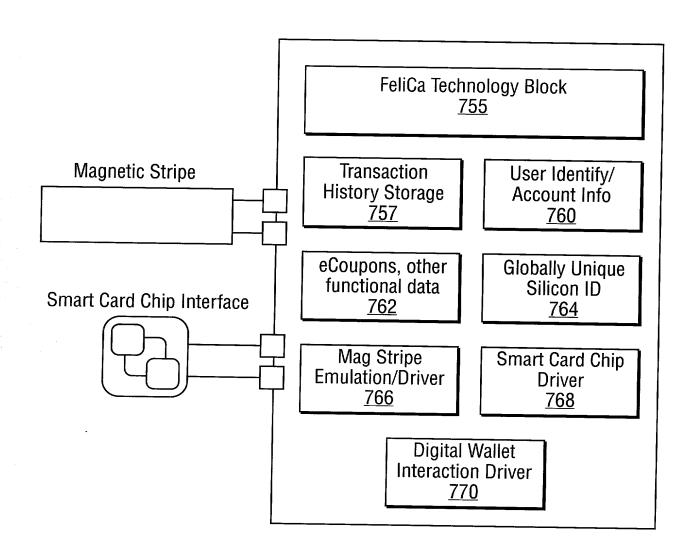


FIG. 7B

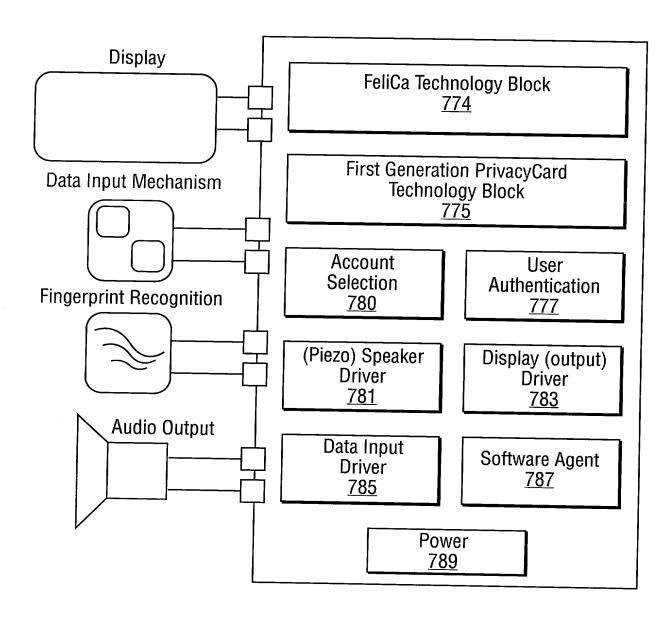
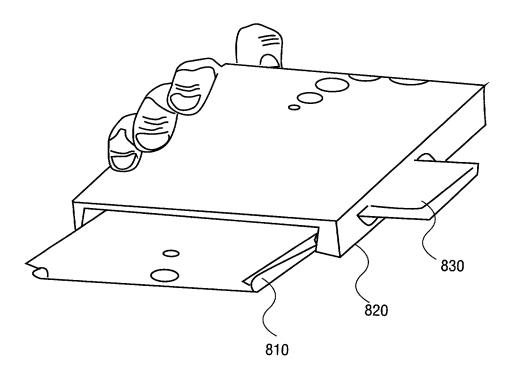


FIG. 7C



DIGITAL WALLET AND PRIVACY CARD

FIG. 8

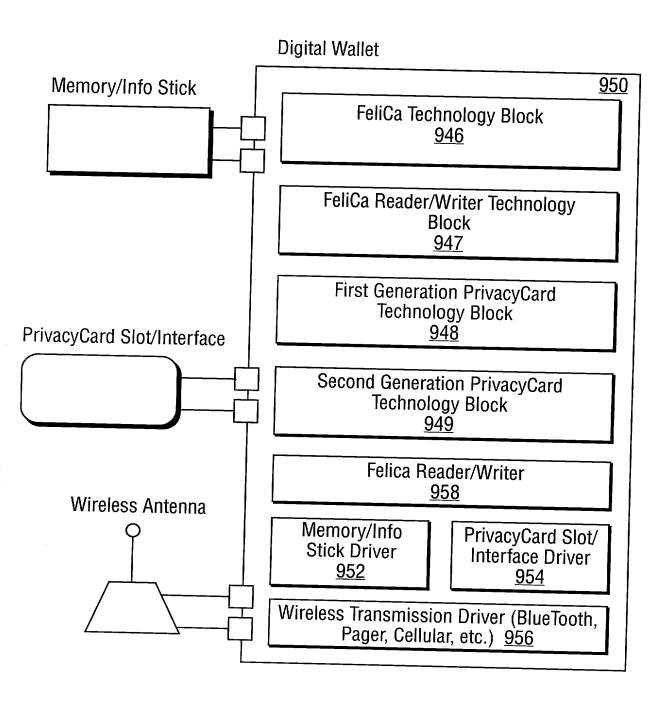
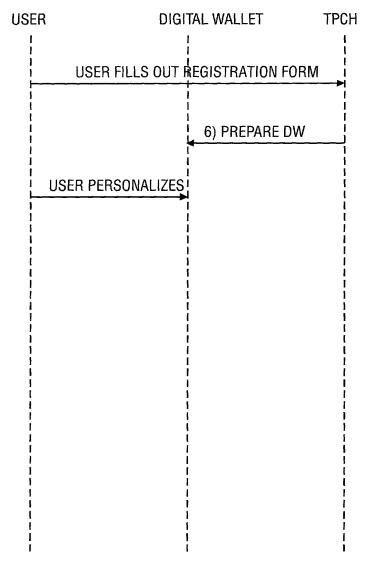


FIG. 9B



SETUP OF DIGITAL WALLET

FIG. 10

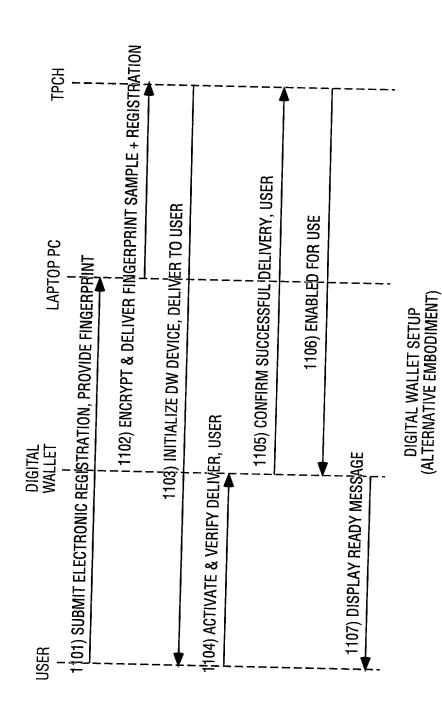
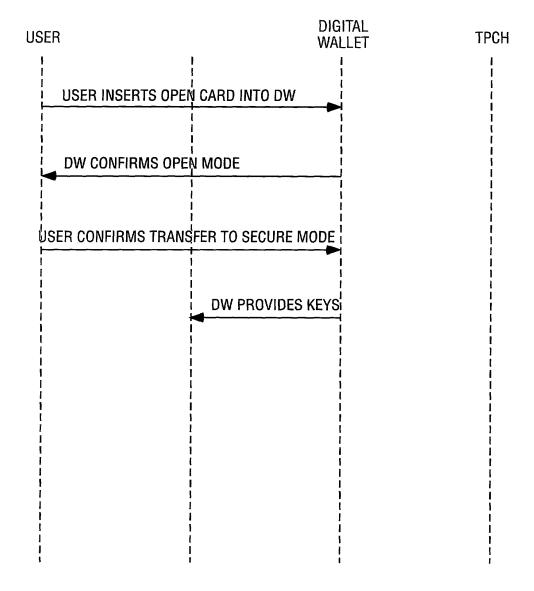


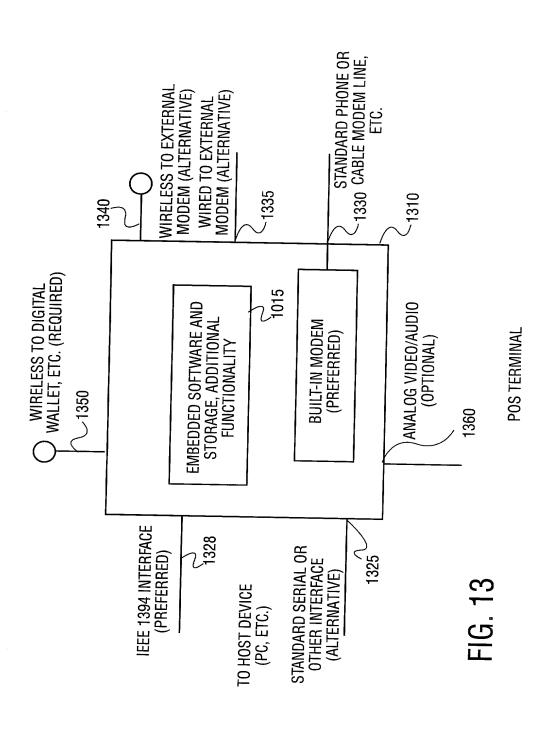
FIG. 11



CONVERSION OF CARD TO SECURE

FIG. 12

A Comment



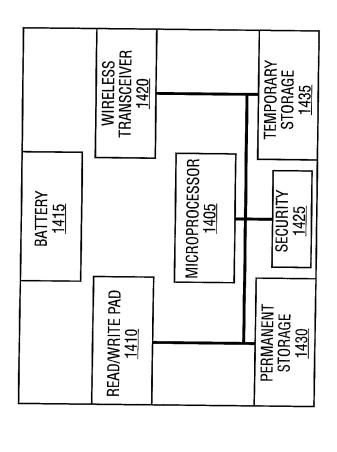


DIAGRAM OF THE MAJOR COMPONENTS OF THE PERSONAL POS, SHOWING THE DATA/ADDRESS BUS INTERCONNECT

FIG. 14

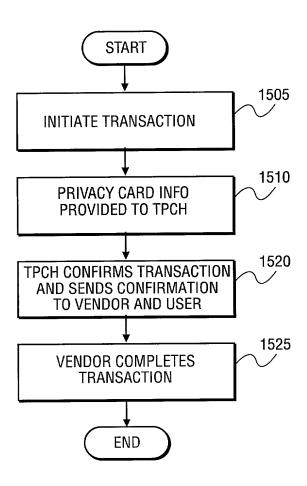
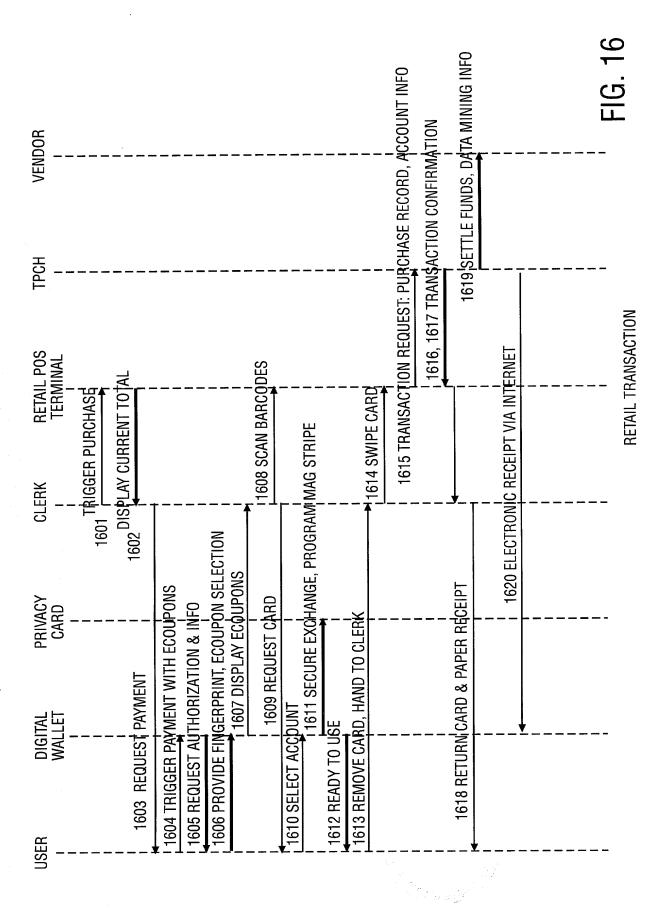


FIG. 15



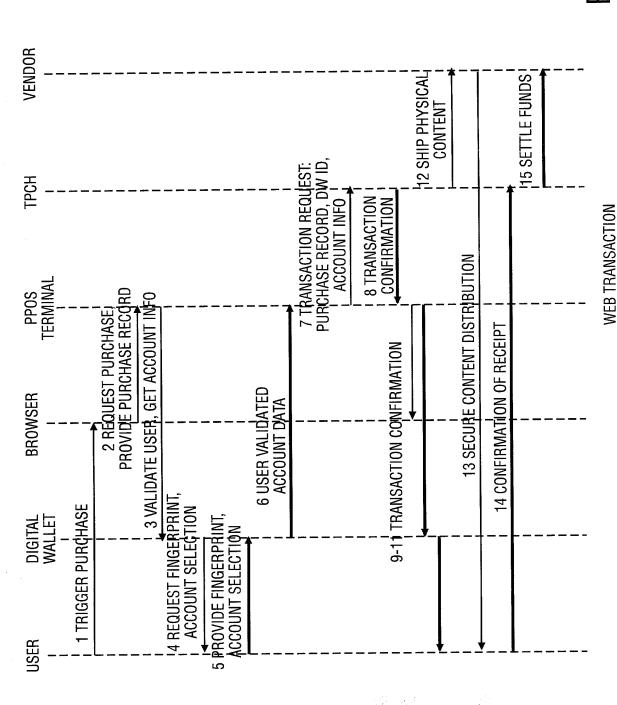
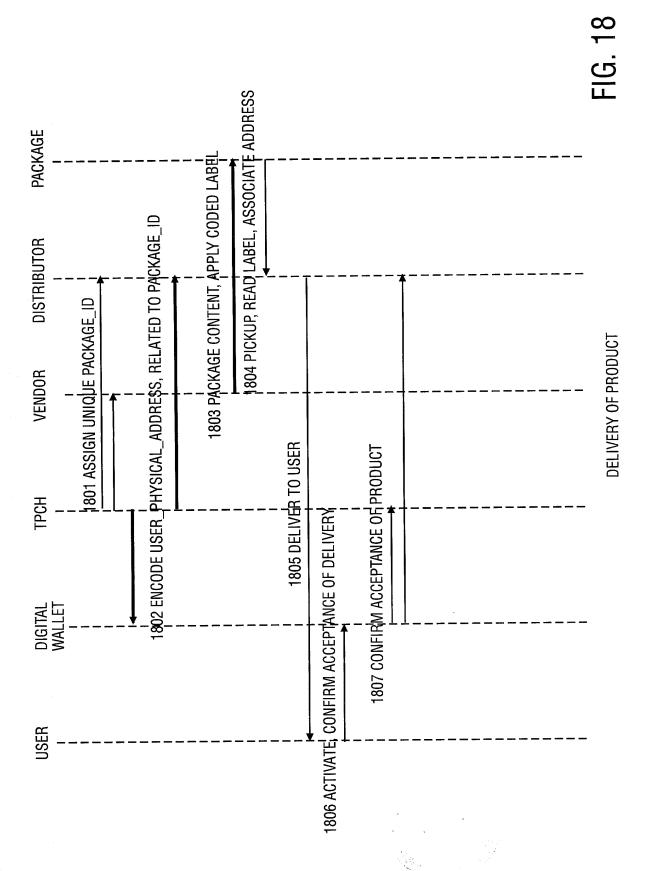
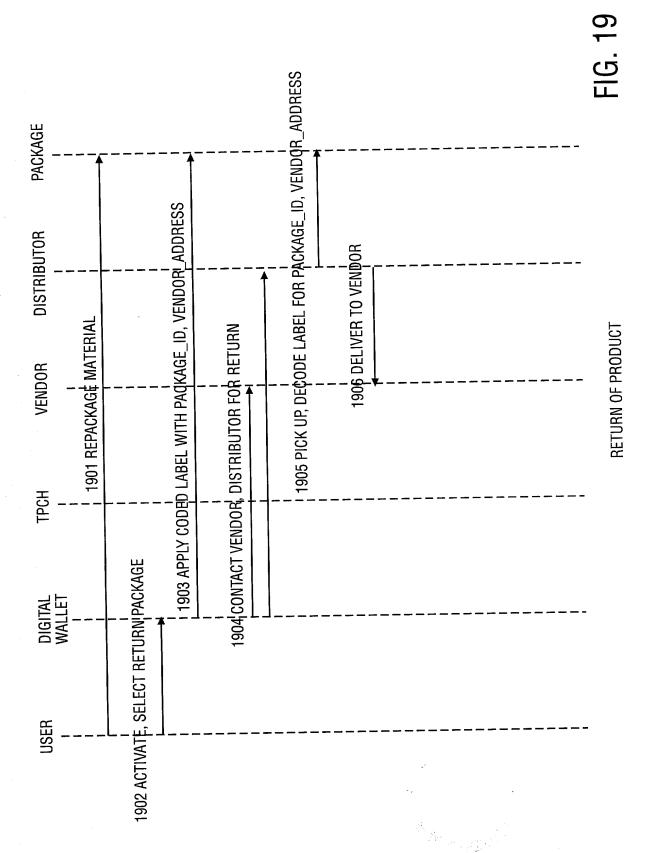
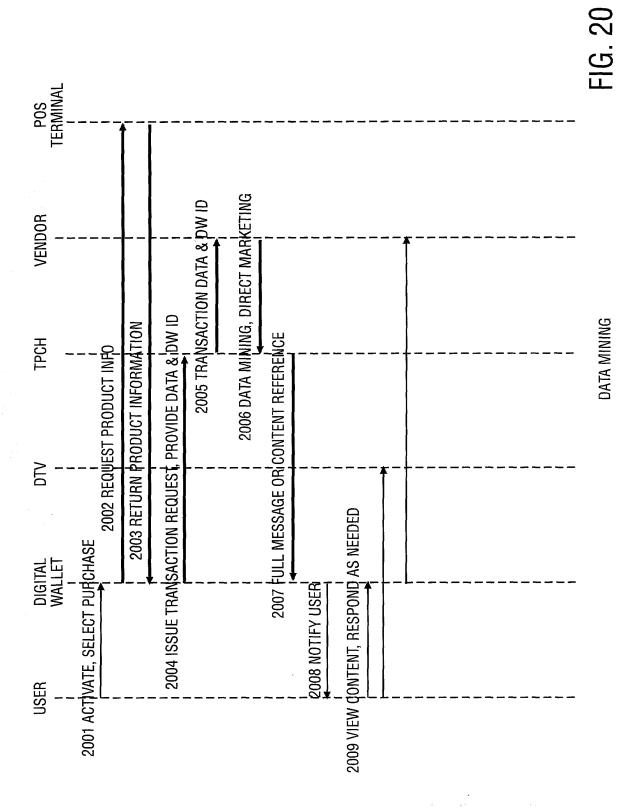
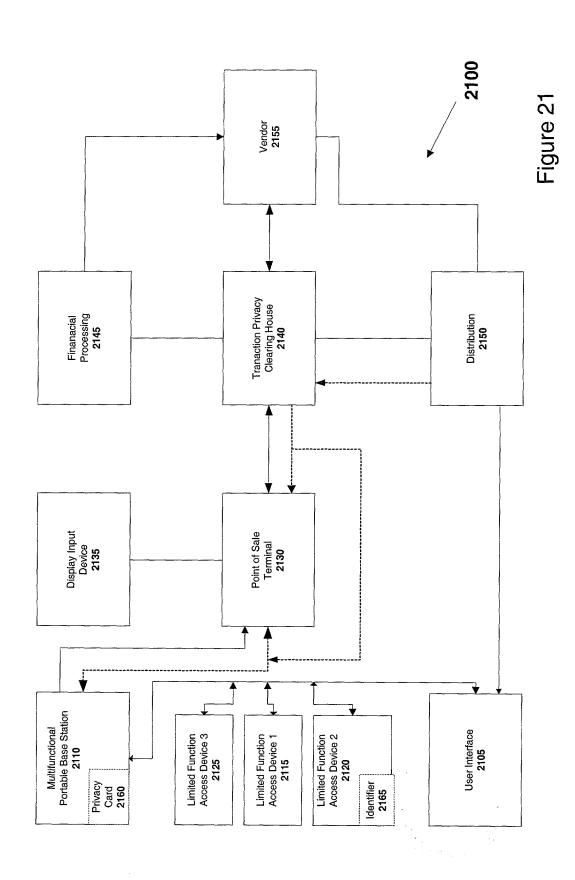


FIG. 17









Same

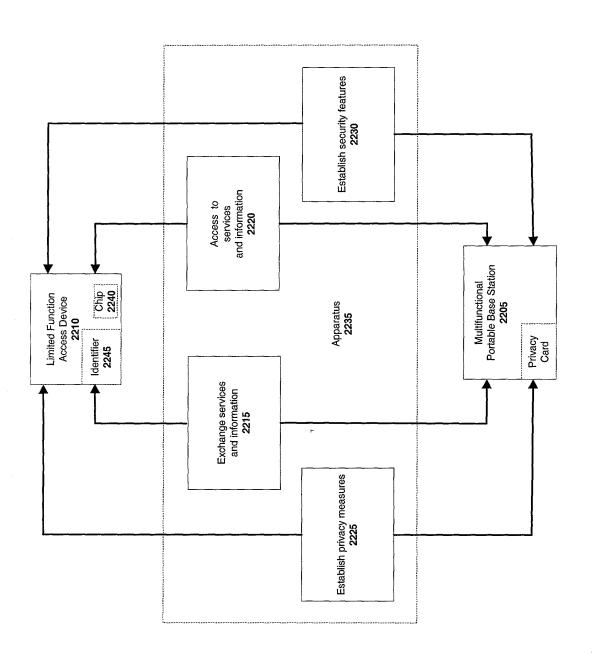


Figure 22